

issued only to persons qualified to conduct experimentations utilizing hertzian waves for scientific or technical operation data directly related to a use of radio not provided by existing rules; for communications in connection with research projects when existing communication facilities are inadequate.

(b) Applicants eligible for authorizations in an established service, and seeking to develop operational data or techniques directed toward the improvement or extension of that service shall file applications and conduct such projects under the developmental rules of the established service.

§ 5.202 Scope of service.

Stations operating in the Experimental Radio Service will be permitted to conduct the following type of operations:

- (a) Experimentations in scientific or technical radio research.
- (b) Experimentations under contractual agreement with the United States Government, or for export purposes.
- (c) Communications essential to a research project.
- (d) Technical demonstrations of equipment or techniques.
- (e) Field strength surveys by persons not eligible for authorization in any other service.
- (f) Demonstration of equipment to prospective purchasers for proposed stations in existing services by persons engaged in the business of selling radio equipment.
- (g) Testing of equipment in connection with production or type approval of such equipment.
- (h) Development of radio technique, equipment or engineering data not relating to an existing or proposed service, including field or factory testing or calibration of equipment.
- (i) Development of radio technique, equipment, operational data or engineering data related to an existing or proposed radio service.
- (j) Limited market studies.
- (k) Other types of experiments that are not specifically covered under paragraphs (a) through (j) of this section will be considered.

§ 5.203 Frequencies for the Experimental Radio Service.

Stations operating in the Experimental Radio Service may be authorized to use any government or non-government frequency designated in the Table of Frequency Allocations set forth in part 2 of this chapter as available for assignment to this service. Provided that the need for the specific frequency(ies) requested is fully justified by the applicant.¹

§ 5.204 Experimental report.

(a) Unless specifically stated as a condition of the authorization, licensees are not required to file a report on the results of the experimental program carried on under this subpart.

(b) The Commission may, as a condition of authorization, request the licensee to forward periodic reports in order to evaluate the progress of the experimental program.

(c) An applicant may request that the commission withhold from the public certain reports and associated material and the Commission will withhold the same unless the public interest requires otherwise.

§ 5.205 Frequencies for field strength surveys or equipment demonstrations.

(a) Authorizations issued under § 5.202 (e) and (f) will normally not have specific frequencies designated in a station license. Prior to the commencement of a survey or demonstration, the licensee will request a specific frequency assignment and submit the following information:

- (1) Time, date and duration of survey.
- (2) Frequency to be used.
- (3) Location of transmitter and geographical area to be covered.
- (4) Purpose of survey.

¹Notwithstanding the broad frequency provision for this Service, applicants desiring authorization for the purpose of wildlife or ocean buoy telemetering and/or tracking should, to the extent practicable, use frequencies in the bands 40.66–40.70 MHz or 216–220 MHz, in accordance with footnote US210 to the Table of Frequency Allocations, § 2.106 of this chapter. Transmitters to be used in these bands for this purpose shall comply with the requirements set forth in § 5.108 of this part.

(5) Method and equipment to be used.
(6) Names and addresses of persons for whom the survey is conducted.

(b) Upon receipt of authority from the Commission to conduct a particular survey, the licensee shall furnish the Engineer-in-Charge of the radio district in which the survey is to be conducted, sufficiently in advance to assure receipt before commencement thereof, the following information: Time, date, duration, frequency, location of transmitter, area to be covered, and purpose of survey.

§ 5.206 Limited market studies.

Unless otherwise stated in the instrument of authorization, licenses granted for the purpose of limited market studies pursuant to § 5.202(j) are subject to the following conditions:

(a) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.

(b) The licensee is responsible for informing anyone participating in the experiment that the service or device is granted under an experimental authorization and is strictly temporary.

(c) The size and scope of the market study may be subject to limitations on a case-by-case basis as the Commission shall determine.

Subparts F–G [Reserved]

Subpart H—Student Authorizations

§ 5.401 Eligibility for license.

The Commission may issue an authorization under this subpart to students for the purpose of presenting experiments or technical demonstrations for school or school approved projects which require the use of radio for a limited period of time. Such authorizations may, in the discretion of the Commission, be granted to students of seventh grade or higher level.

§ 5.402 Filing of applications.

(a) Notwithstanding the requirements in subpart B of this part, an application for a student authorization may be filed in letter form, in duplicate, with the original signed. The application shall contain the information

set forth in paragraph (b) of this section.

(b) The application shall contain the following information:

(1) Name and address of applicant.

(2) A statement that the applicant is a citizen of the United States.

(3) Applicant's school and grade.

(4) A detailed description in narrative form of the project including the type and purpose of operation.

(5) Place of operation—street address, name of building, or other specific location.

(6) Date(s) of operation including the exact hours, when known, as well as the duration of each period of operation.

(7) Equipment to be used. If manufactured, list name of manufacturer and type number. For other equipment, describe in detail and furnish a circuit diagram.

(8) Frequency(ies) desired and range of frequencies which could be employed.

(9) The method by which the frequency of operation will be determined.

(10) Frequency tolerance.

(11) The means by which this tolerance will be maintained.

(12) DC plate power input to final radio frequency stage. If not known, indicate any known power rating of equipment and state whether this is power output of transmitter or radiated power, and whether average or peak.

(13) Type of emission including a description of the modulation that will be applied, if modulated.

(14) Description of the antenna to be used, including height above ground.

(c) The application shall be accompanied by a signed statement from the principal of the school, or a member of its faculty, on appropriate letterhead, stating that the project has the approval of the school and indicating the person under whose general supervision the project will be conducted.

§ 5.403 Waiver of construction permit.

Subject to the requirements of §§ 5.401 and 5.402, the provisions contained in section 319(d) of the Communications